

Appl. No. 10/759,767  
Amdt. dated Aug 18, 2004  
Reply to Office Action of May 28, 2004

**Amendments to the abstract of the disclosure**

This abstract of the disclosure will replace the prior version in the application:

A centrifuge is provided for the separation and/or treatment of cells in a substantially annular or partially annular separation bag connected by at least one tube to at least one secondary bag. The centrifuge comprises a rotor bowl connected at the upper end of a rotor shaft. The rotor shaft includes a hollow upper portion defining a central compartment for receiving the at least one secondary bag. The rotor bowl includes a separation compartment for receiving the separation bag and an expandable hydraulic chamber located within the separation compartment for selectively squeezing the separation bag within the separation compartment so as to transfer a separated component from the separation bag into a secondary bag in the central compartment. A hydraulic system is connected to the hydraulic chamber by a duct extending through the rotor shaft for pumping a hydraulic liquid to and from the hydraulic chamber.